

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0008	Overall LMA Rating	Total LMA Miles						
Sacramento Maintenance Yard Sacramento Bypass	A	3.51						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.02			
<i>Supplemental</i>								
DWR UCIP Field Study					0.11			
<i>LMA Totals:</i>	0.00	0.00	0.00	0.00%	0.13	0.00	0.00	0.00

Unit No. 01 Sacramento Bypass or North Levee RB	Overall Unit Rating	Total Unit Miles						
ST0008	A	1.73						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
<i>Supplemental</i>								
DWR UCIP Field Study					0.09			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.10	0.00	0.00	0.00

Unit No. 02 Sacramento Bypass or South Levee LB	Overall Unit Rating	Total Unit Miles						
ST0008	A	1.78						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
<i>Supplemental</i>								
DWR UCIP Field Study					0.02			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.03	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento Bypass or North Levee			Right	1.73
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	-		10/15/2013 - 10/15/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Casey Lund Sacramento Maintenance Yard		Casey Lund Sacramento Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Sacramento Maintenance Yard Sacramento Bypass

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
9	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6460 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: horizontal air vent on waterside slope. Green vegetation and depressions found on waterside slope. More investigation required. FIELD_STRUCT_DESC: 1 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012	38.602180 ° -121.579130 °	38.602180 ° -121.579130 °	6
DWR ID: DWR_ST0008_01_f_2013_6										
10	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:12703 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: After more investigation depressions are from water run off. erosion repair needed FIELD_STRUCT_DESC: 1 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 5/7/2013 9:09:11 AM	38.602180 ° -121.579130 °	38.602180 ° -121.579130 °	7
DWR ID: DWR_ST0008_01_f_2013_7										
11	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6384 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. More investigation required. FIELD_STRUCT_DESC: 1 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012	38.602130 ° -121.579130 °	38.602130 ° -121.579130 °	8
DWR ID: DWR_ST0008_01_f_2013_8										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	

12	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6382 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. More investigation required. FIELD_STRUCT_DESC: 1 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012	38.602130 ° -121.579130 °	38.602130 ° -121.579130 °	9
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DWR ID: DWR_ST0008_01_f_2013_9

13	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6383 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Air vent exposed horizontally in waterside slope. Green vegetation and depressions found on waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012	38.602128 ° -121.579146 °	38.602128 ° -121.579146 °	10
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DWR ID: DWR_ST0008_01_f_2013_10

14	1.14	1.14	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:6445 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Horizontal Air vent on waterside slope. Green vegetation and depressions also found on waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 10/4/2012	38.602128 ° -121.579150 °	38.602128 ° -121.579150 °	11
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DWR ID: DWR_ST0008_01_f_2013_11

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
15	1.14	1.14	Supplemental	DWR UCIP Field Study	CR	M En	Inspector Comments: FS_ID:12705 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Horizontal Air vent on waterside slope. Green vegetation and depressions also found on waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 5/7/2013 9:12:36 AM	38.602128 ° -121.579150 °	38.602128 ° -121.579150 °	13
DWR ID: DWR_ST0008_01_f_2013_13										
16	1.14	1.14	Earthen Levee	Encroachments	CR	M En	DE : Debris	38.601947 ° -121.579838 °	38.601947 ° -121.579838 °	16 Y
DWR ID: DWR_ST0008_01_f_2013_16										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.04
End Levee Mile	1.73
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The levee has been burned and the new vegetation is starting to grow. Fall 2013

johngw_f_20131021_138.JPG



Levee Mile Report Line	5
Start Levee Mile	0.44
End Levee Mile	1.73
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The levee has been burned and the new vegetation has begun to grow. Fall 2013

johngw_f_20131021_139.JPG



Levee Mile Report Line	6
Start Levee Mile	0.46
End Levee Mile	0.46
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

The area has been resloped and complies with standards. Fall 2013

johngw_f_20131021_140.JPG



*** Location**

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CR : Crown

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.73	10/15/2013 10/15/2013	John Williamson

Levee Mile Report Line	8
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Crown
Category	Supplemental
Item	DWR UCIP Field Study

Landside view: pumping plant overview

UCIP_2819.jpg



Levee Mile Report Line	16
Start Levee Mile	1.14
End Levee Mile	1.14
Location	Crown
Category	Earthen Levee
Item	Encroachments

Prunings and furniture are left on the levee crown.
Fall 2013

johngw_f_20131021_141.JPG



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Sacramento Maintenance Yard Sacramento Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento Bypass or South Levee			Left	1.78
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	-		10/15/2013 - 10/15/2013	
DWR Inspector	John Williamson		John Williamson	
Accompanied By	Casey Lund Sacramento Maintenance Yard		Casey Lund Sacramento Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.78	10/15/2013 10/15/2013	John Williamson

LMR No.	Levee Mile		Category	Item	Location *	Rating ** +	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.01	1.76	Earthen Levee	Vegetation	LS	A	V1 : Control annual grass and weeds on the levee slopes and easements.	38.602773 ° -121.555775 °	38.594775 ° -121.586542 °	3 Y
DWR ID: DWR_ST0008_02_f_2013_3										
2	1.19	1.19	Supplemental	DWR UCIP Field Study	LS	M	Inspector Comments: FS_ID:6408 EP_NO: 11826 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vertical GI pipe trash rack in inlet structure; trash rack is falling apart and found in the water. Big pumping plant with 5 pipes. FIELD_STRUCT_DESC: A 36-inch drainage pipe through the levee, 2.0 feet below the crown. A steel pipe pump structure and pump house on the landward side with a vertical pump. A siphon breaker located on the apex of the pipe near the LS of the levee. A flapgate installed on the discharge end of the pipe. (App. No. 11826 - R.D. 537) 10/76. FS Date: 10/4/2012	38.597544 ° -121.576620 °	38.597544 ° -121.576620 °	1 Y
DWR ID: DWR_ST0008_02_f_0_1										
3	1.19	1.19	Supplemental	DWR UCIP Field Study	LS	M	Inspector Comments: FS_ID:6441 EP_NO: 11826 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Vertical GI pipe trash rack in inlet structure; trash rack has fallen apart and found in the water. Big pumping plant with 5 pipes. FIELD_STRUCT_DESC: A 36-inch drainage pipe through the levee, 2.0 feet below the crown. A steel pipe pump structure and pump house on the landward side with a vertical pump. A siphon breaker located on the apex of the pipe near the LS of the levee. A flapgate installed on the discharge end of the pipe. (App. No. 11826 - R.D. 537) 10/76. FS Date: 10/4/2012	38.597544 ° -121.576621 °	38.597544 ° -121.576621 °	2
DWR ID: DWR_ST0008_02_f_0_2										
4	1.76	1.76	Earthen Levee	Encroachments	LS	M	PR : Prunings	38.594777 ° -121.586525 °	38.594777 ° -121.586525 °	5 Y
DWR ID: DWR_ST0008_02_f_2013_5										

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Sacramento Maintenance Yard Sacramento Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.78	10/15/2013 10/15/2013	John Williamson

Levee Mile Report Line	1
Start Levee Mile	0.01
End Levee Mile	1.76
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The levee has no unwanted vegetation. Fall 2013

johngw_f_20131021_142.JPG



Levee Mile Report Line	2
Start Levee Mile	1.19
End Levee Mile	1.19
Location	Land Side
Category	Supplemental
Item	DWR UCIP Field Study

Landside view: overview of the pumping plant

UCIP_2809.jpg



Levee Mile Report Line	4
Start Levee Mile	1.76
End Levee Mile	1.76
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The never ending pruning pile at the end of the unit. Fall 2013

johngw_f_20131021_144.JPG



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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